

March 5, 2003

MODIS sensor Working Group (MsWG) Summary

Attendance: Bob Barnes, Stuart Biggar, Vincent Chiang, Wayne Esaias, Bob Evans, Bryna Franz, Tim Gubbles, Gerhard Meister, Vince Salomonson, Junqiang Sun, Gary Toller, Jack Xiong, Zhengming Wan, Joe Esposito

Scheduled Items

Item 1 Instrument Status

JX) Both instruments (Terra and Aqua) are operating well.

Aqua software patch that is used to fix the Aqua spacecraft's attitude problem was loaded this morning (03/05/2003).

Terra two-day (30 orbits) continuous SD closed mode done. MCST is waiting for data to be loaded from tape (data is on "sneaker net" due to MCST/SSAI move).

Terra m1 LUT are being updated bi-weekly, Aqua is updated about monthly unless data indicates an update required sooner.

Item 2 Calibration and Characterization Update

Terra Deep Space Maneuvers

JX) The first DSM is scheduled on time for 3/26/2003. The second DSM orbit time, with lunar viewing, is almost nailed down and will be on 4/14/2003. The SeaWifs team will be given the DSM orbit time in order to plan their simultaneous DSM of the moon.

VS) Are we ready for DSM analysis when data comes into MCST?

JX) MCST needs to get high-speed line established. One of the options is to bring computer systems over to the DAAC.

Aqua SRCA Lamp Tests

JX) SRCA 10W B and C lamps are to be tested in order to isolate the problem.

VS) Is the MCST website available to external users?

JX) The MCST system managers are working on a firewall issue. MCSTweb should be available in about 3 days. A calibration update package was sent out to the MsWG participants. To provide additional and supporting materials, MCST will put full Terra mission (3 year 2/24/2000-2003) trending plots on the website soon.

BE) Miami has found detector to detector Lw variability of a few percent which leads to low-level striping (0.2%) in the total radiance. Cycles of high and low in the gain terms look like residuals in Lw(t). To get quantitative results is difficult in the waterfall plots although the eye works very well.

JX) Is Miami doing additional normalization.

BE) Miami is doing Band average normalization for the cross scan.

VS) Need sound bite for the HQ data review presentation. Is it fair to say that striping is at ~0.2%?

BE) The product is at 2% in the blue bands and at 4% in the green bands.

GM) Which SeaWifs uncertainty does Miami need?

BE) WL radiance rms between SeaWifs and MOBY.

- SB) On page 26 of the handout (35 pages of powerpoint charts for Terra instrument status update) you show two AOI points for the time dependent RVS. Do you have other AOI points?
- JX) The SD and moon is shown, the SRCA also has results at 38° that lies between the other points (SRCA is not depicted).
- BE) Miami will do one run with only MCST corrections (no Miami corrections) and then with Miami correction to show differences and improvements.
- BE) Does anyone know what causes the knee near day 635?
- JX) There is no explanation for the knee.
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Around the Table

Participant: Vince Salomonson – All poised to hold data products review downtown next week.

Participant: Zhengming Wan - Going to do vicarious in Nevada to compare Aqua and Terra.
JX) This should not be impacted by the DSM.

Next MsWG meeting March 19,2003